

20090913.ba v04_n286.bam.20090913

>From ???@??? Sun Sep 13 22:16:07 2009 -0500
Date: Sun, 13 Sep 2009 21:14:41 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4286
Message-Id: <20090914031443.8E607D52A9@srvr1.theporch.com>

BOATANCHORS Digest 4286

Topics covered in this issue include:

- 1) Re: Take us back to the golden age--please!
by "Robert Lawson" <w4rl@bellsouth.net>
- 2) A.R.C. Type 12 Controls needed.
by "B. Smith" <smithab11@comcast.net>
- 3) Re: Old Time Radio Manufacturing
by Scott Robinson <spr@earthlink.net>
- 4) Measurements
by "Paul Kraemer" <elespe@lisco.com>
- 5) Shelby Hamfest Orphan
by John Poulton <jp@cs.unc.edu>
- 6) Early transistor radio earphone.
by "KEN" <n5cm@rtconline.com>
- 7) RE: Early transistor radio earphone.
by "Ed Sieb" <esieb@sympatico.ca>
- 8) Wanted - manual/schematic for Central Electronics MM2 Mod Monitor
by Tom Norris <nu4g.radio@gmail.com>
- 9) Fischer Transmitting Tube
by David Hollander <n7rk@cox.net>
- 10) Re: Fischer Transmitting Tube
by Rhett George <rtg@ee.duke.edu>
- 11) Re: [BOATANCHORS-TEMPE] Fischer Transmitting Tube
by David Hollander <n7rk@cox.net>
- 12) Drake connector
by "Paul Kraemer" <elespe@lisco.com>
- 13) Question abt R-270/FRR Crystal Type
by WA5CAB@cs.com
- 14) "Command Sets" book.
by "Brian Goldsmith" <brian.goldsmith@echo1.com.au>
- 15) Re: [Boatanchors] "Command Sets" book.
by "David Stinson" <arc5@ix.netcom.com>
- 16) Re: [Boatanchors] "Command Sets" book.
by mac <w7qho@aol.com>
- 17) BC-221-AK Recapping
by Ben Hall <kd5byb@kd5byb.net>
- 18) Re: BC-221-AK Recapping

- by Jerry Proc <jerry7proc@yahoo.com>
- 19) Re: BC-221-AK Recapping
by Ben Hall <kd5byb@kd5byb.net>
 - 20) Clamper Grid Question
by "Michael Hardie" <mike46@shaw.ca>
 - 21) RE: Clamper Grid Question
by "Singley, Rodger" <rbsingl@ilstu.edu>
 - 22) Re: Clamper Grid Question
by "k4pf@juno.com" <k4pf@juno.com>
 - 23) Panel Paint for the Ranger II
by "Jim Allen" <imaham@sbcglobal.net>

Message-ID: <25316EA2C3D74EE4904B6BCDEFF03592@ksr4b785xu763un>
From: "Robert Lawson" <w4rl@bellsouth.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Take us back to the golden age--please!
Date: Thu, 3 Sep 2009 19:59:02 -0500
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=response
Content-Transfer-Encoding: 7bit

Whew Wee! Great. And even at my age of 62, that young Sammy Haggard really can make those BA glowbottles rock'n'roll. Yep, even at my age I think am able to recognize a true musician no matter what music style and venue. BTW, I also like Jazz and Classical.

Cut a rug es 73 Robert W4RL

----- Original Message -----
From: "Guido" <laffitte@prtc.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Thursday, September 03, 2009 6:48 PM
Subject: Re: Take us back to the golden age--please!

> Marvelous!
>
> Guido KP4FAR
> ----- Original Message -----
> From: "John Sehring" <wb0eq@yahoo.com>
> To: "Old Tube Radios" <boatanchors@theporch.com>
> Sent: Thursday, September 03, 2009 6:58 PM
> Subject: Take us back to the golden age--please!

>
>>I can dream, can't I?
>>
>> <http://www.youtube.com/watch?v=Z0oH2oXJ3Bg>
>>
>> --John WB0EQ
>>
>>
>>
>>
>

Message-ID: <A6C853E53F6141E2A29E37FF988A400E@BCXHTR8HVC4P>

From: "B. Smith" <smithab11@comcast.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: A.R.C. Type 12 Controls needed.

Date: Fri, 4 Sep 2009 19:02:25 -0400

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

A.R.C. Type 12 (late model ARC) items needed, pictures at:
(<http://home.comcast.net/~smithab11/ARC%20Type%2012/ARC%20controls.htm>)

73

breck k4che

Mime-Version: 1.0

Message-Id: <p06240806c6c77bea3b7e@[192.168.1.4]>

Date: Fri, 4 Sep 2009 19:25:23 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: Scott Robinson <spr@earthlink.net>

Subject: Re: Old Time Radio Manufacturing

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Folks,

I asked my girlfriend, who is a museum curator specializing in the history of western* costume, to date the photo. She says, "late '20s or early '30s most likely, from what I can see."

This agrees with the other estimates that have been posted.

Regards,

Scott

*western, in this context, means European and American for the last 1,000 or so years-not West Texas!

Message-ID: <E334FEB3EB374E078E0CF5E37F5C2F51@ENGR2>
From: "Paul Kraemer" <elespe@lisco.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Measurements
Date: Fri, 4 Sep 2009 15:39:13 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="Windows-1252";
 reply-type=original
Content-Transfer-Encoding: 7bit

I am in need of a modulation level meter for the Measurements 65-B signal generator. I believe the same or similar meter is used on the model 80. Actually, I can probably make repairs if I just had the case from a meter of that size / style
Any parts available to purchase?
Thanks
Paul KOUYA

Mime-Version: 1.0 (Apple Message framework v753.1)
Content-Transfer-Encoding: 7bit
Message-Id: <97A65008-C870-4AC1-9BCE-AB2D12E16BA3@cs.unc.edu>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
To: Old Tube Radios <boatanchors@theporch.com>
From: John Poulton <jp@cs.unc.edu>
Subject: Shelby Hamfest Orphan
Date: Sat, 5 Sep 2009 17:44:39 -0400

Just got back from the Shelby hamfest. If you missed it this year, you missed a good one! Lots of interesting radios, great weather, good friends, and lively conversations. This has got to be approaching the 2nd largest hamfest in the country, and a great one for boatanchor collectors! Make your plans for next year.. :)

As we were packing to go, a visitor to our tent left something that got packed by my over-zealous helpers:

An MJF bag with a couple of knife switches, a nicely homebrewed RF

ammeter, and a Yaesu catalog inside.

It that was you, please let me have your mailing address, and I'll get it back to you!

73, John K4OZY

Message-ID: <000801ca2fcc\$1b956590\$020fa8c0@KEN>
From: "KEN" <n5cm@rtconline.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Early transistor radio earphone.
Date: Mon, 7 Sep 2009 10:01:40 -0500
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_0005_01CA2FA2.325FFF80"

This is a multi-part message in MIME format.

-----=_NextPart_000_0005_01CA2FA2.325FFF80
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi Gang,

I am in need of one of the early earphones that came with the first =
transistor AM radios.
Those earphones "plugged" into the outer ear canal.
Way back in 1959, I lost hearing in my left ear. Recently, I believe I =
have discovered
response at one point in the audio spectrum with amplification. I =
believe if this is true
I should be able to copy CW at that spot in the audio spectrum. I need =
to keep the
amplified sound from being picked up with my good right ear hence the =
type of=20
earphone that "seals" the sound inside the bad ear canal .=20
I am aware of "bone conduction" and "tissue conduction" but I don't =
think this will be
a problem if I can keep the sound thru the air from my good ear.
If successfull, maybe I can read CW and monitor another circuit either =
CW or Phone,
in other words, work "split phones". Wish me luck!
Please search your junk box. Thanks,

Ken N5CM

-----=_NextPart_000_0005_01CA2FA2.325FFF80
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

-----=_NextPart_000_0005_01CA2FA2.325FFF80--

Message-ID: <BLU0-SMTP33E676D0776A5E9F745961C9EB0@phx.gbl>
From: "Ed Sieb" <esieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Early transistor radio earphone.
Date: Mon, 7 Sep 2009 11:17:14 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ken,

Unless I'm mistaken, I believe that Radio Shack still sells that type of earphone?
Alternatively, you could use a single "ear-bud" type receiver?

Ed, VA3ES

Ken N5CM wrote:
I am in need of one of the early earphones that came with the first transistor AM
radios.
Those earphones "plugged" into the outer ear canal.

From: Tom Norris <nu4g.radio@gmail.com>
Content-Type: text/plain; charset=us-ascii; format=flowed; delpsp=yes
Content-Transfer-Encoding: 7bit
Subject: Wanted - manual/schematic for Central Electronics MM2 Mod Monitor
Date: Wed, 9 Sep 2009 00:56:56 -0500
Message-Id: <68B3E2C7-527E-4DFC-98CC-215ADDF0AE24@gmail.com>
To: Old Tube Radios <boatanchors@theporch.com>

Mime-Version: 1.0 (Apple Message framework v1075.2)

I have one of these critters that I need to re-cap. Once upon a time I had a good original paper manual, but have been unable to find it.

Does anyone have a good scan they would be willing to share?

Thanks in Advance

Tom NU4G

Message-ID: <4AA942BA.5000509@cox.net>
Date: Thu, 10 Sep 2009 11:17:30 -0700
From: David Hollander <n7rk@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fischer Transmitting Tube
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

I have a tube that I thought was an old Taylor tube.

Marked on the glass is Fischer Chicago, Illinois and the tube number is 3581. Looks like an 805 but a bit larger.

Here is a picture.

<http://members.cox.net/radiostuff9/358fisher.jpg>

Anyone ever heard of the Fischer Tube company? A google search turned up nothing.

Tnx and 73,

Dave N7RK

--

Dave N7RK Boatanchors Home Page: <http://members.cox.net/n7rk>
Phoenix, Arizona *DXCC Honor Roll* *WAZ#22 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector

Date: Thu, 10 Sep 2009 15:27:35 -0400
From: Rhett George <rtg@ee.duke.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: Fischer Transmitting Tube
Message-ID: <20090910192735.GC11638@ee.duke.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

On Thu, Sep 10, 2009 at 11:17:30AM -0700, David Hollander wrote:

> I have a tube that I thought was an old Taylor tube.
>
> Marked on the glass is Fischer Chicago, Illinois and the tube number is
> 3581. Looks like an 805 but a bit larger.
>
> Here is a picture.
>
> <http://members.cox.net/radiostuff9/358fisher.jpg>
>
> Anyone ever heard of the Fischer Tube company? A google search turned up
> nothing.
>
> Tnx and 73,
>
> Dave N7RK
>
>

~~~~~  
- Dave -

Have a look at Fischer Scientific and at Thermo Fischer Scientific, perhaps using Google. The equipment line includes gas chromatographs and mass spectrometers. My guess is that your 3581 was made by some company such as Taylor and branded for Fischer for RF generation.

Cheers and 73,

Rhett, KE4HIH

-----  
Message-ID: <4AA960B7.6030400@cox.net>  
Date: Thu, 10 Sep 2009 13:25:27 -0700  
From: David Hollander <n7rk@cox.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: BOATANCHORS@LISTS.TEMPE.GOV,  
"amswap@mailman.qth.net" <amswap@mailman.qth.net>,



BOATANCHORS <boatanchors@mailman.qth.net>,  
Boatanchors <boatanchors@sco.theporch.com>  
Subject: Re: [BOATANCHORS-TEMPE] Fischer Transmitting Tube  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

Thanks for the info to everyone who responded. Fischer made Diathermy machines and this is a Taylor tube that was made for one of their "instruments"

Tnx and 73,

Dave N7RK

--

\*\*\*\*\*  
Dave N7RK                      Boatanchors Home Page: <http://members.cox.net/n7rk>  
Phoenix, Arizona                \*DXCC Honor Roll\*        \*WAZ#22 - 75 Meter SSB\*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector

-----  
Message-ID: <42E6B492E49142D9A49D0E16955F98BD@ENGR2>  
From: "Paul Kraemer" <elespe@lisco.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Drake connector  
Date: Fri, 11 Sep 2009 09:36:26 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
              format=flowed;  
              charset="Windows-1252";  
              reply-type=original  
Content-Transfer-Encoding: 7bit

Anyone know where to find the 2 pin connector used on Drake 4 line for the antenna relay?

Thanks  
Paul K0UYA

-----  
From: WA5CAB@cs.com  
Message-ID: <caf.4eaf82dc.37dbbefb@cs.com>  
Date: Fri, 11 Sep 2009 10:55:55 EDT  
Subject: Question abt R-270/FRR Crystal Type  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0

Content-Type: multipart/alternative;  
boundary="part1\_caf.4eaf82dc.37dbbfbfb\_boundary"

--part1\_caf.4eaf82dc.37dbbfbfb\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Group,

R-270/FRR is a modified BC-794 (one of the Hammarlund SP-200 family), the main modification being the addition of a crystal controlled HFO that holds three crystals. The manual (TM 11-896) says that the crystal types are HC-1/U, which apparently have no substitute out of the earlier Signal Corps numbered holders. According to SIG 5, HC-1/U has two 1/8" dia. pins spaced 3/4" and is only 7/16" thick.

There was a post a few days ago asking for TCS crystals to use in an R-270. The TCS crystal is in a 3-pin holder and is around an inch thick. But the receiver owner responded to my note telling him what the manual says with the information that the crystal sockets in his receiver take a 3-pin holder.

If anyone here has an R-270, could you please check and tell me what crystal sockets it has inside the oscillator box? In case anyone has a Super Pro with missing nameplate, the BC-794 base unit tunes up to 40 MC and the presence of the crystal oscillator is identified by a small black legend plate and a rotary switch at the top of the front panel just to the left of the S-meter.

If more than one R-270 turns up with the 3-pin sockets, I will annotate my reprint of the TM to show that.

Robert Downs - Houston  
wa5cab dot com (Web Store)  
MVPA 9480

--part1\_caf.4eaf82dc.37dbbfbfb\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
\* (such as an attached file, a v-card, HTML formatting) \*  
\* Mail Lists at theporch.com only accept PLAIN TEXT \*  
\* If your postings display this message your mail program \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting \*

\* \* \* \* \*

--part1\_caf.4eaf82dc.37dbbfbf\_boundary--

-----  
From: "Brian Goldsmith" <brian.goldsmith@echo1.com.au>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: "Command Sets" book.  
Date: Sat, 12 Sep 2009 09:30:46 +1000  
Message-ID: <E7D17D35BB0946E9896478EAFBF83E3F@pcbriang>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Greetings to all. Does anyone know if the book, "Command Sets" from CQ is available for download in PDF form?

TIA, Brian G.

-----  
Message-ID: <B294B2DDB3704466AC5976BE3612AC07@boudreaux>  
From: "David Stinson" <arc5@ix.netcom.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: [Boatanchors] "Command Sets" book.  
Date: Sat, 12 Sep 2009 10:34:50 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
        format=flowed;  
        charset="iso-8859-1";  
        reply-type=original  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Brian Goldsmith" <brian.goldsmith@echo1.com.au>  
Subject: [Boatanchors] "Command Sets" book.

> Greetings to all. Does anyone know if the book, "Command Sets" from CQ is  
> available for download in PDF form?

I hope not. That book's done enough damage.

-----

From: mac <w7qho@aol.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: [Boatanchors] "Command Sets" book.  
Message-Id: <9FC38883-C62F-4B23-8D58-A9AA37CA9D3F@aol.com>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes  
Content-Transfer-Encoding: 7bit  
Mime-Version: 1.0 (Apple Message framework v936)  
Date: Sat, 12 Sep 2009 14:20:14 -0700  
Cc: Old Tube Radios <boatanchors@theporch.com>

Dave,

Yes, I know what you're saying -- "1001 ways to mutilate a command set." OTOH, considering the vast quantities available and the low prices back "when" command sets and other surplus were properly considered raw material for whatever projects Hams and others might decide to undertake. This situation made Ham radio what it was in the decades following WW2. But, that was then and now is now. Book does contain much useful information, though, and there are still plenty of junkers around to play with if one is so inclined.

Dennis D. W7QHO  
Glendale, CA

On Sep 12, 2009, at 8:34 AM, David Stinson wrote:

> I hope not. That book's done enough damage.

-----  
Message-ID: <4AAC5E71.5070908@kd5byb.net>  
Date: Sat, 12 Sep 2009 21:52:33 -0500  
From: Ben Hall <kd5byb@kd5byb.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BC-221-AK Recapping  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

Good evening all,

Getting ready to work on a BC-221-AK frequency meter. Have the SCR-211 manual that covers the AK, so I figured I was all set.

Nope! While the manual lists the capacitors, it doesn't list what types were used.

Is it safe to assume that the uf caps are probably paper, while the uuf caps are the variables plus non-paper caps?

thanks much and 73,  
ben, kd5byb

--

Ben Hall, kd5byb@kd5byb.net - ALWAYS OUTNUMBERED, NEVER OUTGUNNED.

-----  
Message-ID: <74319.98897.qm@web112320.mail.gq1.yahoo.com>  
Date: Sun, 13 Sep 2009 07:02:43 -0700 (PDT)  
From: Jerry Proc <jerry7proc@yahoo.com>  
Subject: Re: BC-221-AK Recapping  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi Ben,

I have the service manual for the BC221D which describes the caps.  
Assuming that the 'AK' and 'D' circuits are nearly identical, the list may =  
be useful.

I have posted it to:  
<http://jproc.ca/test/221-caps.pdf>

--

Regards,  
Jerry Proc  
E-mail: jerry7proc@yahoo.com

--- On Sat, 9/12/09, Ben Hall <kd5byb@kd5byb.net> wrote:

> From: Ben Hall <kd5byb@kd5byb.net>  
> Subject: BC-221-AK Recapping  
> To: "Old Tube Radios" <boatanchors@theporch.com>  
> Received: Saturday, September 12, 2009, 7:52 PM  
> Good evening all,  
>=20  
> Getting ready to work on a BC-221-AK frequency meter.=A0  
> Have the SCR-211 manual that covers the AK, so I figured I  
> was all set.  
>=20  
> Nope!=A0 While the manual lists the capacitors, it  
> doesn't list what types were used.  
>=20  
> Is it safe to assume that the uf caps are probably paper,

> while the uuf caps are the variables plus non-paper caps?  
>=20  
> thanks much and 73,  
> ben, kd5byb  
> -- Ben Hall, kd5byb@kd5byb.net  
> - ALWAYS OUTNUMBERED, NEVER OUTGUNNED.=A0=A0=A0=20  
>=20  
> =0A=0A=0A \_\_\_\_\_=  
\_\_\_\_\_=0AMake your browsing faster, safer, and easier with the new Intern=  
et Explorer=AE 8. Optimized for Yahoo! Get it Now for Free! at [http://downl=  
oads.yahoo.com/ca/internetexplorer/](http://download.sds.yahoo.com/ca/internetexplorer/)

-----  
Message-ID: <4AAD4CA3.7060302@kd5byb.net>  
Date: Sun, 13 Sep 2009 14:48:51 -0500  
From: Ben Hall <kd5byb@kd5byb.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: BC-221-AK Recapping  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

Jerry Proc wrote:

> I have the service manual for the BC221D which describes the caps.  
> Assuming that the 'AK' and 'D' circuits are nearly identical, the list may be  
useful.  
>  
> I have posted it to:  
> <http://jproc.ca/test/221-caps.pdf>

Hi Jerry and gang,

Thanks much. None of the numbers seemed to match my AK schematic, but  
it gives me a real good idea of what probably is paper and what probably  
is not paper.

At any rate, I may not have to do anything in the way of re-capping on  
the AK. An off-list e-mail suggested I try the set out before recapping  
it so I did. It seems to work very well as is, so I'll probably just  
leave it unless it develops a problem.

thanks much and 73,  
ben, kd5byb  
--

Ben Hall, kd5byb@kd5byb.net - ALWAYS OUTNUMBERED, NEVER OUTGUNNED.

-----

Message-ID: <C59C94824C174AF484AB9E63B9B88759@userd0315415c7>

From: "Michael Hardie" <mike46@shaw.ca>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Clamper Grid Question

Date: Sun, 13 Sep 2009 12:59:29 -0700

MIME-Version: 1.0

Content-Type: text/plain;  
format=flowed;  
charset="iso-8859-1";  
reply-type=original

Content-Transfer-Encoding: 7bit

Both the DX-100 and the Valiant have the grid in the clamp tube connected (via resistors and an adjustment pot) to the final grid bias supply and "half" the HV supply. Why the HV supply? Wouldn't it have been simpler to connect to the LV supply?

Mike VE7MMH

-----  
Content-class: urn:content-classes:message

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

Subject: RE: Clamper Grid Question

Date: Sun, 13 Sep 2009 17:34:26 -0500

Message-ID: <AA28191F88740543A764089198FF86DE9A2227@COBEXCHANGE.ad.ilstu.edu>

From: "Singley, Rodger" <rbsingl@ilstu.edu>

To: Old Tube Radios <boatanchors@theporch.com>

Mike,

The way the clamp circuit works is when there is normal grid drive the = clamp tube is biased to cutoff and it has no effect on the final. When = grid drive to the final is lost the bias also drops and the clamp tube = conducts heavily. The clamp tube plate and the final screen are both = fed through the screen dropping resistor (from the HV supply)so when = drive is lost the clamp tube conducts heavily and also pulls down the = screen potential due to drop across the screen dropping resistor. = Reducing the final screen voltage also reduces the final plate current = thus protecting the final and associated power supply.

So to work, the clamp tube must be fed from the same source that = supplies the screen and that is generally the HV or plate supply.

Rodger WQ9E

-----Original Message-----

From: owner-boatanchors@theporch.com on behalf of Michael Hardie

Sent: Sun 9/13/2009 2:59 PM

To: Old Tube Radios

Subject: Clamper Grid Question

=20

Both the DX-100 and the Valiant have the grid in the clamp tube =  
connected=20

(via resistors and an adjustment pot) to the final grid bias supply and=20  
"half" the HV supply. Why the HV supply? Wouldn't it have been simpler =  
to=20

connect to the LV supply?

Mike VE7MMH=20

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Mime-Version: 1.0

From: "k4pf@juno.com" <k4pf@juno.com>

Date: Mon, 14 Sep 2009 00:18:25 GMT

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Clamper Grid Question

Message-Id: <20090913.201825.5717.0@webmail11.vgs.unttd.com>

Content-Transfer-Encoding: quoted-printable

Content-Disposition: inline

Content-Type: text/plain; charset=ISO-8859-1

Michael Hardie <mike46@shaw.ca> VE7MMH wrote

>Both the DX-100 and the Valiant have the grid in the clamp tube  
connected (via resistors and an adjustment pot) =

to the final grid bias supply and "half" the HV supply. =

Why the HV supply? Wouldn't it have been simpler to =

connect to the LV supply?

Hi, Mike

The clamp tube protects the final from the effect of loss of drive  
by conducting heavily in the absence of final amplifier  
grid current (no negative voltage at rf choke of 6146  
grids to counterbalance positive voltage from 1/2 HV point). =

When the clamp tube conducts, it reduces the screen  
voltage of the 6146's. That's because the 6146 screens share the same  
dropping resistors as the clamp tube plate, both fed from



the HV supply. The grid tie thru a high resistance =  
to the 1/2 HV point ensures a heavy turn on for the clamp tube, =  
since its grid will go positive in the absence of 6146 grid drive.

If the clamp tube grid source of positive voltage were  
the LV power supply, its grid would be positive at all times  
of no drive, even with the HV off (and thus no plate voltage  
on the clamp tube). It would not be good to operate the clamp tube  
with a positive control grid but no plate voltage: its grid would then  
start acting as a plate and may be destroyed.

73,  
Ed Knobloch

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From: "Jim Allen" <imaham@sbcglobal.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Panel Paint for the Ranger II  
Date: Sun, 13 Sep 2009 20:14:15 -0700  
Message-ID: <001501ca34e9\$70d063d0\$52712b70\$@net>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="-----\_NextPart\_000\_0016\_01CA34AE.C4718BD0"  
Content-Language: en-us

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0016\_01CA34AE.C4718BD0  
Content-Type: text/plain;  
charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hi,

I'm in need of the two colors of paint on the panel of the Johnson Ranger  
II. Just a small amount for a touch up. Anyone know a source?

Thanks,

Jim

NU6AM

-----=\_NextPart\_000\_0016\_01CA34AE.C4718BD0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
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*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
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-----=\_NextPart\_000\_0016\_01CA34AE.C4718BD0--

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End of BOATANCHORS Digest 4286  
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